查询S4KW12KA-3供应商

SEMTECH

STANDARD RECOVERY HIGH VOLTAGE, HIGH CURRENT RECTIFIER

S4KW4KA-1 S4KW8KA-2 S4KW12KA-3 S4KW16KA-4 S4KW20KA-5 S4KW24KA-6

January 29, 1998

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HIGH VOLTAGE, HIGH CURRENT, HIGH DENSITY, STANDARD RECOVERY RECTIFIER ASSEMBLY

- Up to 20A forward current and 24kV reverse voltage
- Air or oil environment
- High reverse surge current
- High thermal shock resistance
- Integral cooling fins

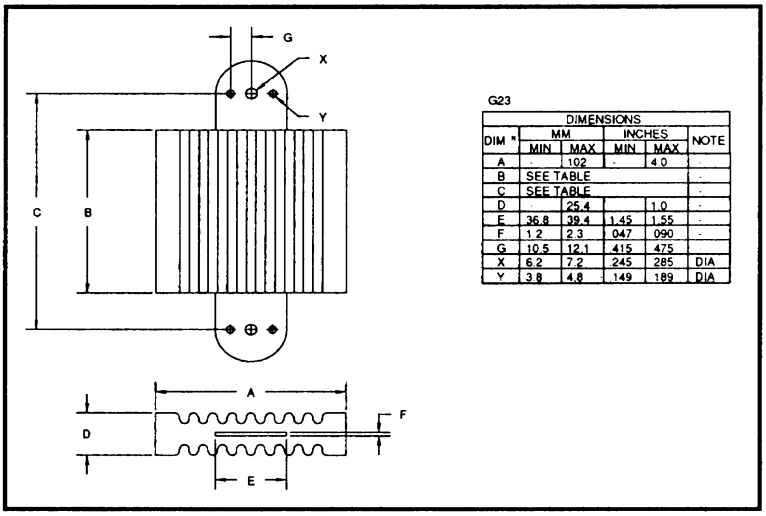
QUICK REFERENCE DATA

- V_R = 4kV - 24kV
- I_F = 8.0 - 20.0A (in oil)
- I_R = 4.0μA
- I_{FSM} = 500A

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$				1 Cycle Surge Current t_p = 8.3mS I_{FSM}		Repetitive Surge Current I_{FRM}	I^2t t_p = 8.3mS
		air @ 25 °C	air @ 65 °C	forced air 600CFM @ 55°C	still oil @ 55 °C	@ 25 °C	@ 100 °C	@ 25 °C	@ 25 °C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	A^2S
S4KW4KA-1	4000	8.0	5.4	16.0	20.0	500	300	90	1000
S4KW8KA-2	8000	6.0	4.0	12.0	15.0				
S4KW12KA-3	12000	6.0	4.0	12.0	15.0				
S4KW16KA-4	16000	6.0	4.0	12.0	15.0				
S4KW20KA-5	20000	6.0	4.0	12.0	15.0				
S4KW24KA-6	24000	6.0	4.0	12.0	15.0				

MECHANICAL



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DIM *	DIMENSIONS MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
A	-	102	-	4.0	-
B	SEE TABLE				-
C	SEE TABLE				-
D	-	25.4		1.0	-
E	36.8	39.4	1.45	1.55	-
F	1.2	2.3	047	090	-
G	10.5	12.1	415	475	
X	6.2	7.2	245	285	DIA
Y	3.8	4.8	149	189	DIA

Dimensions (see drawing)	
B (max)	C (max)
inches	inches
4.780	6.480
7.980	9.680
11.18	12.88
14.38	16.08
17.58	19.28
20.78	22.48

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CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 25 °C µA	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 100 °C µA	Maximum Forward Voltage V_F @ 12.0A @ 25°C Volts	Maximum Reverse Recovery Time [1] t_{rr} @ 25°C µS
S4KW4KA-1	↑	↑	4.0	↑
S4KW8KA-2			8.0	
S4KW12KA-3	4.0	80	12.0	2.0
S4KW16KA-4			16.0	
S4KW20KA-5			20.0	
S4KW24KA-6	↓	↓	24.0	↓

[1] Measured on discrete devices prior to assembly

Operating temperature range -55 °C to +150 °C
Storage temperature range -55 °C to +150 °C

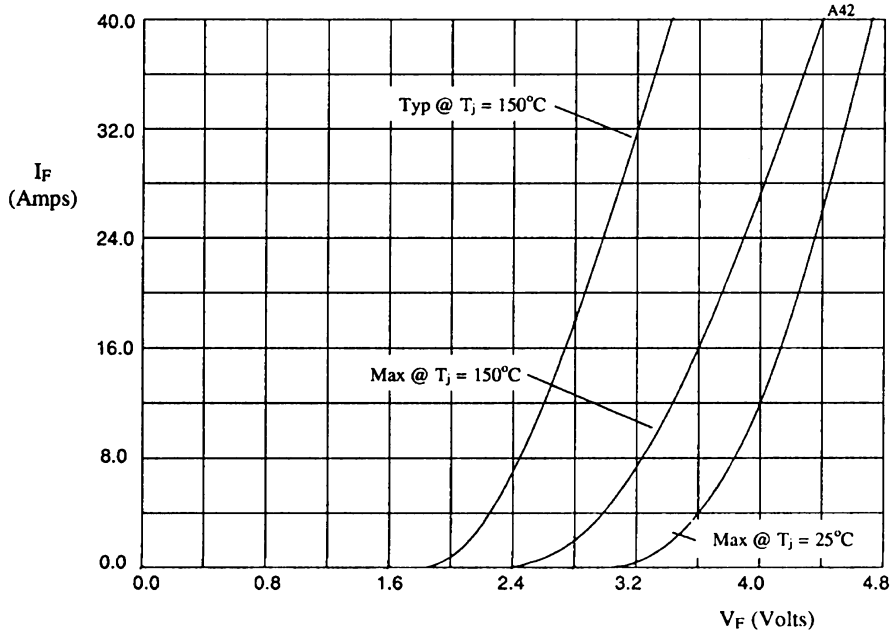

Figure 1. Forward voltage drop as a function of forward current.

TABLE I

DEVICE	X-axis
S4KW4KA-1	x1
S4KW8KA-2	x2
S4KW12KA-3	x3
S4KW16KA-4	x4
S4KW20KA-5	x5
S4KW24KA-6	x6

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